



Cyberoam CR50i

Comprehensive Network Security for Small and Remote Offices



Cyberoam UTM

Cyberoam CR50i is an identity-based security appliance that delivers real-time network protection against evolving Internet threats to Small Office-Home Office (SOHO) and Remote Office Branch Office (ROBO) users.

Small, remote offices with limited security like firewall, anti-virus are exposed to Internet threats. Cyberoam delivers comprehensive protection from malware, virus, spam, phishing, pharming and more. Its unique identity-based security protects users from internal threats that lead to data leakage. Cyberoam features include Stateful Inspection Firewall, VPN (SSL VPN & IPSec), Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, IPS, Content Filtering, Bandwidth Management, Multiple Link Management and can be centrally managed with Cyberoam Central Console.

Identity-based Security in UTM

Cyberoam attaches the user identity to security, taking enterprises a step ahead of conventional solutions that bind security to IP-addresses. Cyberoam's identity-based security offers full business flexibility while ensuring complete security in any environment, including DHCP and Wi-Fi, by identifying individual users within the network-whether they are victims or attackers.

Features	Description	Benefits
Stateful Inspection Firewall (ICSA Labs Certified)	<ul style="list-style-type: none"> Powerful stateful and deep packet inspection Fusion technology blends all the components of Cyberoam into a single firewall policy Prevents DoS & flooding attacks from internal & external sources Identity-based access control for applications like P2P, IM 	<ul style="list-style-type: none"> Application layer protection Provides the right balance of security, connectivity and productivity Flexibility to set policies by user identity High scalability
Virtual Private Network	<ul style="list-style-type: none"> Threat Free Tunneling Industry standard: IPSec, SSL, L2TP, PPTP VPN VPN High Availability for IPSec and L2TP connections Dual VPNC Certifications - Basic and AES Interop 	<ul style="list-style-type: none"> Safe and clean VPN traffic Secure connectivity to branch offices and remote users Low cost remote connectivity over the Internet Effective failover management with defined connection priorities
Gateway Anti-Virus & Anti-Spyware	<ul style="list-style-type: none"> Scans HTTP, FTP, IMAP, POP3 and SMTP traffic Detects and removes viruses, worms and Trojans Access to quarantined mails to key executives Instant user identification in case of HTTP threats 	<ul style="list-style-type: none"> Complete protection of traffic over all protocols High business flexibility Protection of confidential information Real-time security
Gateway Anti-Spam	<ul style="list-style-type: none"> Scans SMTP, POP3 and IMAP traffic for spam Detects, tags and quarantines spam mail Enforces black and white lists Virus Outbreak Protection Content-agnostic spam protection including Image-spam using Recurrent Pattern Detection (RPD™) Technology Spam Notification through Digest IP Reputation-based Spam filtering 	<ul style="list-style-type: none"> Enhances productivity High business flexibility Protection from emerging threats High scalability Zero hour protection incase of virus outbreaks Multi-language and Multi-format spam detection
Intrusion Prevention System - IPS	<ul style="list-style-type: none"> Database of over 3000 signatures Multi-policy capability with policies based on default & custom signatures, source and destination Prevents intrusion attempts, DoS attacks, malicious code, backdoor activity and network-based blended threats Blocks anonymous proxies with HTTP proxy signatures Blocks "phone home" activities 	<ul style="list-style-type: none"> Low false positives Real-time Security in dynamic environments like DHCP and Wi-Fi Offers instant user-identification in case of internal threats Apply IPS policies on users
Content & Application Filtering	<ul style="list-style-type: none"> Automated web categorization engine blocks non-work sites based on millions of sites in over 82+ categories URL Filtering for HTTP & HTTPS protocols Hierarchy, department, group, user-based filtering policies Time-based access to pre-defined sites Prevents downloads of streaming media, gaming, tickers, ads Supports CIPA compliance for schools and libraries 	<ul style="list-style-type: none"> Prevents exposure of network to external threats Blocks access to restricted websites Ensures regulatory compliance Saves bandwidth and enhances productivity Protects against legal liability Ensures the safety and security of minors online Enables schools to qualify for E-rate funding
Bandwidth Management	<ul style="list-style-type: none"> Committed and burstable bandwidth by hierarchy, departments, groups & users Category-based Bandwidth restriction 	<ul style="list-style-type: none"> Prevents bandwidth congestion Prioritizes bandwidth for critical applications
Multiple Link Management	<ul style="list-style-type: none"> Security over multiple ISP links using a single appliance Load balances traffic based on weighted round robin distribution Link Failover automatically shifts traffic from a failed link to a working link 	<ul style="list-style-type: none"> Easy to manage security over multiple links Controls bandwidth congestion Optimal use of low-cost links Ensures business continuity
On-Appliance Reporting	<ul style="list-style-type: none"> Complete Reporting Suite available on the Appliance Traffic discovery offers real-time reports Reporting by username 	<ul style="list-style-type: none"> Reduced TCO as no additional purchase required Instant and complete visibility into patterns of usage Instant identification of victims and attackers in internal network

Specification

Interfaces		Bandwidth Management	
10/100 Ethernet Ports	4	Application and User Identity based Bandwidth Management	Yes
10/100/1000 GBE Ports	-	Guaranteed & Burstable bandwidth policy	Yes
Configurable Internal/DMZ/WAN Ports	Yes	Application & User Identity based Traffic Discovery	Yes
Console Ports (RJ45/DB9)	1	Multi WAN bandwidth reporting	Yes
SFP (Mini GBIC) Ports	-	Category-based Bandwidth restriction	Yes
USB Ports	4		
Hardware Bypass Segments	-	User Identity and Group Based Controls	
		Access time restriction	Yes
System Performance*		Time and Data Quota restriction	Yes
Firewall throughput (Mbps)	175	Schedule based Committed and Burstable Bandwidth	Yes
New sessions/second	3,000	Schedule based P2P and IM Controls	Yes
Concurrent sessions	220,000		
168-bit Triple-DES/AES throughput (Mbps)	50/60	Networking	
Antivirus throughput (Mbps)	40	Multiple Link Auto Failover	Yes
IPS throughput (Mbps)	100	WRR based Load balancing	Yes
UTM throughput (Mbps)	35	Policy routing based on Application and User	Yes
		DDNS/PPPoE Client	Yes
Stateful Inspection Firewall		Support for HTTP Proxy	Yes
Multiple Zones security with separate levels of access rule enforcement for each zone	Yes	Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding	Yes
Rules based on the combination of User, MAC, Source & Destination Zone and IP address and Service	Yes	Parent Proxy support with FQDN	Yes
Actions include policy based control for IPS, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes	DHCP Server and Relay	Yes
Access Scheduling	Yes		
Policy based Source & Destination NAT	Yes	High Availability	
H.323 NAT Traversal	Yes	Active-Active	Yes
802.1q VLAN Support	Yes	Active-Passive with state synchronization	Yes
DoS & DDoS Attack prevention	Yes	Stateful Failover	Yes
MAC & IP-MAC filtering and Spoof prevention	Yes	Alert on Appliance Status change	Yes
Gateway Anti-Virus & Anti-Spyware		Administration & System Management	
Virus, Worm, Trojan Detection & Removal	Yes	Web-based configuration wizard	Yes
Spyware, Malware, Phishing protection	Yes	Role-based administration	Yes
Automatic virus signature database update	Yes	Multiple administrators and user levels	Yes
Scans HTTP, FTP, SMTP, POP3, IMAP, VPN Tunnels	Yes	Upgrades & changes via Web UI	Yes
Customize individual user scanning	Yes	Multi-lingual support: Chinese, Hindi, French	Yes
Self Service Quarantine area	Yes	Web UI (HTTPS)	Yes
Scan and deliver by file size	Yes	Command line interface (Serial, SSH, Telnet)	Yes
Block by file types	Yes	SNMP (v1, v2c, v3)	Yes
Add disclaimer/signature	Yes	Cyberoam Central Console	Yes
		Version Rollback	Yes
Gateway Anti-Spam		NTP Server Support	Yes
Real-time Blacklist (RBL), MIME header check	Yes		
Filter based on message header, size, sender, recipient	Yes	User Authentication	
Subject line tagging	Yes	Local database	Yes
IP address Black list/White list	Yes	Windows Domain Control & Active Directory Integration	Yes
Redirect spam mails to dedicated email address	Yes	Automatic Windows Single Sign On	Yes
Image-based spam filtering using RPD Technology	Yes	External LDAP/RADIUS database Integration	Yes
Zero hour Virus Outbreak Protection	Yes	User/MAC Binding	Yes
Self Service Quarantine area	Yes		
Spam Notification through Digest	Yes	Logging/Monitoring	
IP Reputation-based Spam filtering	Yes	Internal HDD	Yes
		Graphical real-time and historical monitoring	Yes
Intrusion Prevention System		Email notification of reports, viruses and attacks	Yes
Signatures: Default (3000+), Custom	Yes	Syslog support	Yes
IPS Policies: Multiple, Custom	Yes		
User-based policy creation	Yes	On-Appliance Reporting	
Automatic real-time updates from CRProtect networks	Yes	Intrusion events reports	Yes
Protocol Anomaly Detection	Yes	Policy violations reports	Yes
Block		Web Category reports (user, content type)	Yes
- P2P applications e.g. Skype	Yes	Search Engine Keywords reporting	Yes
- Anonymous proxies e.g. Ultra surf	Yes	Data transfer reporting (By Host, Group & IP Address)	Yes
- "Phone home" activities	Yes	Virus reporting by User and IP Address	Yes
- Keylogger	Yes	Compliance Reports	45+
Content & Application Filtering		VPN Client	
Inbuilt Web Category Database	Yes	IPSec compliant	Yes
URL, keyword, File type block	Yes	Inter-operability with major IPSec VPN Gateways	Yes
Categories: Default(82+), Custom	Yes	Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista	Yes
Protocols supported: HTTP, HTTPS	Yes	Import Connection configuration	Yes
Block Malware, Phishing, Pharming URLs	Yes		
Custom block messages per category	Yes	Certification	
Block Java Applets, Cookies, Active X	Yes	ICSA Firewall - Corporate	Yes
CIPA Compliant	Yes	VPN - Basic and AES interoperability	Yes
Data leakage control via HTTP upload	Yes	Checkmark UTM Level 5 Certification	Yes
Virtual Private Network - VPN		Compliance	
IPSec, L2TP, PPTP	Yes	CE	Yes
Encryption - 3DES, DES, AES, Twofish, Blowfish, Serpent	Yes	FCC	Yes
Hash Algorithms - MD5, SHA-1	Yes		
Authentication - Preshared key, Digital certificates	Yes	Dimensions	
IPSec NAT Traversal	Yes	H x W x D (inches)	1.72 x 16.8 x 9.1
Dead peer detection and PFS support	Yes	H x W x D (cms)	4.4 x 42.7 x 23.5
Diffie Hellman Groups - 1,2,5,14,15,16	Yes	Weight	4 kg, 8.82 lbs
External Certificate Authority support	Yes		
Export Road Warrior connection configuration	Yes	Power	
Domain name support for tunnel end points	Yes	Input Voltage	110-240 VAC
VPN connection redundancy	Yes	Consumption	25.09W
Overlapping Network support	Yes	Total Heat Dissipation (BTU)	-
Hub & Spoke VPN support	Yes		
		Environmental	
SSL VPN		Operating Temperature	0 to 40 °C
TCP & UDP Tunneling	Yes	Storage Temperature	-20 to 80 °C
Authentication - Active Directory, LDAP, RADIUS, Cyberoam	Yes	Relative Humidity (Non condensing)	10 to 90%
Multi-layered Client Authentication - Certificate, Username/Password	Yes	Cooling System Fans	2
User & Group policy enforcement	Yes		
Network access - Split and Full tunneling	Yes		
Browser-based (Portal) Access - Clientless access	Yes		
Lightweight SSL VPN Tunneling Client	Yes		
Granular access control to all the Enterprise Network resources	Yes		
Administrative controls - Session timeout, Dead Peer Detection, Portal customization	Yes		

*Antivirus, IPS and UTM performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending on the real network traffic environments.

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